

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5 AND Job = 'MANAGER';
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
JONES	7566	7839	MANAGER	2975
BLAKE	7698	7839	MANAGER	2850
CLARK	7782	7839	MANAGER	2450

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job = 'SALESMAN'
```

SQL> /

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'BLAKE'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job = 'SALESMAN'
```

SQL> /

ENAME	EMPNO	MGR	JOB	SAL
BLAKE	7698	7839	MANAGER	2850
ALLEN	7499	7698	SALESMAN	1600
WARD	7521	7698	SALESMAN	1250
MARTIN	7654	7698	SALESMAN	1250
TURNER	7844	7698	SALESMAN	1500

SQL> ED

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Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job = 'MANAGER' AND Job = 'SALESMAN'
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000

SQL> ED
Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND Job = 'MANAGER' OR Job = 'SALESMAN'
SQL> /
ERROR:
ORA-01436: CONNECT BY loop in user data
```

no rows selected

SQL> ED
Wrote file afiedt.buf

```
1 SELECT Ename, Empno, Mgr, Job, Sal
2 FROM Emp
3 START WITH Ename = 'KING'
4 CONNECT BY PRIOR Empno = MGR
5* AND (Job = 'MANAGER' OR Job = 'SALESMAN')
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
JONES	7566	7839	MANAGER	2975
BLAKE	7698	7839	MANAGER	2850
ALLEN	7499	7698	SALESMAN	1600
WARD	7521	7698	SALESMAN	1250
MARTIN	7654	7698	SALESMAN	1250
TURNER	7844	7698	SALESMAN	1500

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```
CLARK          7782          7839 MANAGER          2450
```

8 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  START WITH Ename = 'KING'
4  CONNECT BY PRIOR Empno = MGR
5* AND Job IN ('MANAGER', 'SALESMAN')
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
JONES	7566	7839	MANAGER	2975
BLAKE	7698	7839	MANAGER	2850
ALLEN	7499	7698	SALESMAN	1600
WARD	7521	7698	SALESMAN	1250
MARTIN	7654	7698	SALESMAN	1250
TURNER	7844	7698	SALESMAN	1500
CLARK	7782	7839	MANAGER	2450

8 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  START WITH Ename = 'KING'
4  CONNECT BY PRIOR Empno = MGR
5* AND Job <> 'SALESMAN'
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
JONES	7566	7839	MANAGER	2975
SCOTT	7788	7566	ANALYST	3000
ADAMS	7876	7788	CLERK	1100
FORD	7902	7566	ANALYST	3000
SMITH	7369	7902	CLERK	800
BLAKE	7698	7839	MANAGER	2850
JAMES	7900	7698	CLERK	950
CLARK	7782	7839	MANAGER	2450

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```
MILLER          7934          7782 CLERK          1300
```

10 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  START WITH Ename = 'KING'
4  CONNECT BY PRIOR Empno = MGR
5* AND Job <> 'CLERK'
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
JONES	7566	7839	MANAGER	2975
SCOTT	7788	7566	ANALYST	3000
FORD	7902	7566	ANALYST	3000
BLAKE	7698	7839	MANAGER	2850
ALLEN	7499	7698	SALESMAN	1600
WARD	7521	7698	SALESMAN	1250
MARTIN	7654	7698	SALESMAN	1250
TURNER	7844	7698	SALESMAN	1500
CLARK	7782	7839	MANAGER	2450

10 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  START WITH Ename = 'KING'
4  CONNECT BY PRIOR Empno = MGR
5* AND Job <> 'ANALYST'
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
JONES	7566	7839	MANAGER	2975
BLAKE	7698	7839	MANAGER	2850
ALLEN	7499	7698	SALESMAN	1600
WARD	7521	7698	SALESMAN	1250
MARTIN	7654	7698	SALESMAN	1250
TURNER	7844	7698	SALESMAN	1500

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```
.....
JAMES          7900          7698 CLERK          950
CLARK          7782          7839 MANAGER        2450
MILLER         7934          7782 CLERK          1300
```

10 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  WHERE Job <> 'ANALYST'
4  START WITH Ename = 'KING'
5* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME	EMPNO	MGR	JOB	SAL
KING	7839		PRESIDENT	5000
JONES	7566	7839	MANAGER	2975
ADAMS	7876	7788	CLERK	1100
SMITH	7369	7902	CLERK	800
BLAKE	7698	7839	MANAGER	2850
ALLEN	7499	7698	SALESMAN	1600
WARD	7521	7698	SALESMAN	1250
MARTIN	7654	7698	SALESMAN	1250
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950
CLARK	7782	7839	MANAGER	2450
MILLER	7934	7782	CLERK	1300

12 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
2  FROM Emp
3  WHERE Deptno =
4  (
5  SELECT Deptno
6  FROM Dept
7  WHERE DName = 'SALES'
8  )
9  /
```

ENAME	EMPNO	MGR	JOB	SAL
BLAKE	7698	7839	MANAGER	2850
MARTIN	7654	7698	SALESMAN	1250
ALLEN	7499	7698	SALESMAN	1600

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```
.....
TURNER          7844          7698 SALESMAN          1500
JAMES           7900          7698 CLERK             950
WARD            7521          7698 SALESMAN          1250
```

6 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal
  2  FROM Emp
  3  WHERE Deptno =
  4  (
  5  SELECT Deptno
  6  FROM Dept
  7  WHERE DName = 'SALES'
  8  )
  9  START WITH Ename = 'KING'
 10  CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL
BLAKE	7698	7839	MANAGER	2850
ALLEN	7499	7698	SALESMAN	1600
WARD	7521	7698	SALESMAN	1250
MARTIN	7654	7698	SALESMAN	1250
TURNER	7844	7698	SALESMAN	1500
JAMES	7900	7698	CLERK	950

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal,
  2  ROUND(SalAvg, 2) SalAvg
  3  FROM Emp E,
  4  (
  5  SELECT Deptno, AVG(Sal) SalAvg
  6  FROM Emp
  7  GROUP BY Deptno
  8  ) E1
  9  WHERE E.Deptno = E1.Deptno
 10
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
WARD	7521	7698	SALESMAN	1250	1566.67
JAMES	7900	7698	CLERK	950	1566.67
TURNER	7844	7698	SALESMAN	1500	1566.67
ALLEN	7499	7698	SALESMAN	1600	1566.67
MARTIN	7654	7698	SALESMAN	1250	1566.67

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```
.....
```

BLAKE	7698	7839	MANAGER	2850	1566.67
ADAMS	7876	7788	CLERK	1100	2175
SCOTT	7788	7566	ANALYST	3000	2175
SMITH	7369	7902	CLERK	800	2175
FORD	7902	7566	ANALYST	3000	2175
JONES	7566	7839	MANAGER	2975	2175
MILLER	7934	7782	CLERK	1300	2916.67
CLARK	7782	7839	MANAGER	2450	2916.67
KING	7839		PRESIDENT	5000	2916.67

14 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal,
  2  ROUND(SalAvg, 2) SalAvg
  3  FROM Emp E,
  4  (
  5  SELECT Deptno, AVG(Sal) SalAvg
  6  FROM Emp
  7  GROUP BY Deptno
  8  ) E1
  9  WHERE E.Deptno = E1.Deptno
 10  START WITH Ename = 'KING'
 11  CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
KING	7839		PRESIDENT	5000	2916.67
JONES	7566	7839	MANAGER	2975	2175
SCOTT	7788	7566	ANALYST	3000	2175
ADAMS	7876	7788	CLERK	1100	2175
FORD	7902	7566	ANALYST	3000	2175
SMITH	7369	7902	CLERK	800	2175
BLAKE	7698	7839	MANAGER	2850	1566.67
ALLEN	7499	7698	SALESMAN	1600	1566.67
WARD	7521	7698	SALESMAN	1250	1566.67
MARTIN	7654	7698	SALESMAN	1250	1566.67
TURNER	7844	7698	SALESMAN	1500	1566.67
JAMES	7900	7698	CLERK	950	1566.67
CLARK	7782	7839	MANAGER	2450	2916.67
MILLER	7934	7782	CLERK	1300	2916.67

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal,
  2  ROUND(SalAvg, 2) SalAvg
  3  FROM Emp E,
```

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```
4  (
5  SELECT Deptno, AVG(Sal) SalAvg
6  FROM Emp
7  GROUP BY Deptno
8  ) E1
9  WHERE E.Deptno = E1.Deptno AND
10 E1.Deptno =
11 (
12 SELECT Deptno
13 FROM Dept
14 WHERE Dname = 'SALES'
15 )
16 /
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
ALLEN	7499	7698	SALESMAN	1600	1566.67
TURNER	7844	7698	SALESMAN	1500	1566.67
BLAKE	7698	7839	MANAGER	2850	1566.67
WARD	7521	7698	SALESMAN	1250	1566.67
JAMES	7900	7698	CLERK	950	1566.67
MARTIN	7654	7698	SALESMAN	1250	1566.67

6 rows selected.

```
SQL> SELECT Ename, Empno, Mgr, Job, Sal,
2  ROUND(SalAvg, 2) SalAvg*
3  FROM Emp E,
4  (
5  SELECT Deptno, AVG(Sal) SalAvg
6  FROM Emp
7  GROUP BY Deptno
8  ) E1
9  WHERE E.Deptno = E1.Deptno AND
10 E1.Deptno =
11 (
12 SELECT Deptno
13 FROM Dept
14 WHERE Dname = 'SALES'
15 )
16 START WITH Ename = 'KING'
17 CONNECT BY PRIOR Empno = MGR ;
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
BLAKE	7698	7839	MANAGER	2850	1566.67
ALLEN	7499	7698	SALESMAN	1600	1566.67
WARD	7521	7698	SALESMAN	1250	1566.67

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```
MARTIN          7654          7698 SALESMAN          1250          1566.67
TURNER          7844          7698 SALESMAN          1500          1566.67
JAMES           7900          7698 CLERK            950           1566.67
```

6 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  Ename,
  3  Empno,
  4  Mgr,
  5  Job,
  6  Sal,
  7  ROUND(SalAvg, 2) SalAvg,
  8  ROUND
  9  (
10      (
11          (
12              SELECT AVG(Sal)
13              FROM Emp
14          ) - SalAvg
15      ), 2
16  ) AvgDif
17 FROM Emp E,
18 (
19     SELECT Deptno, AVG(Sal) SalAvg
20     FROM Emp
21     GROUP BY Deptno
22 ) E1
23 WHERE E.Deptno = E1.Deptno AND
24 E1.Deptno =
25 (
26     SELECT Deptno
27     FROM Dept
28     WHERE Dname = 'SALES'
29 )
30 START WITH Ename = 'KING'
31 CONNECT BY PRIOR Empno = MGR;
```

ENAME	EMPNO	MGR	JOB	SAL	SALAVG
AVGDIF					
-					
BLAKE	7698	7839	MANAGER	2850	1566.67
506.55					
ALLEN	7499	7698	SALESMAN	1600	1566.67
506.55					

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WARD	7521	7698 SALESMAN	1250	1566.67
506.55				
MARTIN	7654	7698 SALESMAN	1250	1566.67
506.55				
TURNER	7844	7698 SALESMAN	1500	1566.67
506.55				
JAMES	7900	7698 CLERK	950	1566.67
506.55				

6 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  Ename,
3  Empno,
4  Mgr,
5  Job,
6  Sal,
7  ROUND(SalAvg, 2) SalAvg,
8  ROUND
9  (
10      (
11          (
12              SELECT AVG(Sal)
13              FROM Emp
14          ) - SalAvg
15      ), 2
16  ) AvgDif
17  FROM Emp E,
18  (
19      SELECT Deptno, AVG(Sal) SalAvg
20      FROM Emp
21      GROUP BY Deptno
22  ) E1
23  WHERE E.Deptno = E1.Deptno AND
24  E1.Deptno =
25  (
26      SELECT Deptno
27      FROM Dept
28      WHERE Dname = 'SALES'
29  )
30  START WITH Ename =
31  (
32      SELECT Ename
33      FROM Emp
34      WHERE Sal =
```

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```
35      (
36      SELECT MAX(Sal)
37      FROM Emp
38      WHERE Deptno =
39      (
40      SELECT Deptno
41      FROM Dept
42      WHERE Dname = 'ACCOUNTING'
43      )
44      )
45  )
46* CONNECT BY PRIOR Empno = MGR
SQL> /
```

ENAME AVGDIF	EMPNO	MGR	JOB	SAL	SALAVG
BLAKE	7698	7839	MANAGER	2850	1566.67
WARD	7521	7698	SALESMAN	1250	1566.67
JAMES	7900	7698	CLERK	950	1566.67
TURNER	7844	7698	SALESMAN	1500	1566.67
ALLEN	7499	7698	SALESMAN	1600	1566.67
MARTIN	7654	7698	SALESMAN	1250	1566.67

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2  Ename Name,
3  CONNECT_BY_ROOT(Ename) Boss
4  FROM EMP
5  START WITH Empno = 7839
6  CONNECT BY PRIOR Empno = MGR;
```

NAME	BOSS
KING	KING
JONES	KING
SCOTT	KING
ADAMS	KING

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```
FORD      KING
SMITH     KING
BLAKE     KING
ALLEN     KING
WARD      KING
MARTIN    KING
TURNER    KING
JAMES     KING
CLARK     KING
MILLER    KING
```

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Ename Name,
3  CONNECT_BY_ROOT(Ename) Boss
4  FROM EMP
5  START WITH MGR = 7839
6* CONNECT BY PRIOR Empno = MGR
SQL> /
```

NAME	BOSS
JONES	JONES
SCOTT	JONES
ADAMS	JONES
FORD	JONES
SMITH	JONES
BLAKE	BLAKE
ALLEN	BLAKE
WARD	BLAKE
MARTIN	BLAKE
TURNER	BLAKE
JAMES	BLAKE
CLARK	CLARK
MILLER	CLARK

13 rows selected.

```
SQL> SPOOL OFF
```

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